

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1.-65. (Cancelled).

66. (Currently amended) An isolated, or purified polypeptide, said polypeptide comprising a ~~or enriched bacterial polypeptide fragment or variant that is derived from of~~ *Staphylococcus aureus* (*S. aureus*) DnaG primase set forth in ~~comprising~~ SEQ ID NO: 2, wherein said polypeptide bacterial polypeptide fragment or variant comprises less than 566 ~~amino acids of SEQ ID NO: 2, and wherein said polypeptide binds a bacteriophage polypeptide.~~

67. (Currently amended) The isolated or purified polypeptide bacterial polypeptide ~~fragment or variant of claim 66, wherein said fragment or variant possess a~~ an biological activity selected from the group consisting of: ~~*in vitro* or *in vivo*~~ activation of DNA polymerase activity, RNA primase activity, stimulation of helicase activity of *S. aureus* DnaC helicase, and stimulation of ATPase activity of *S. aureus* DnaC helicase.

68. (Currently amended) The isolated or purified polypeptide bacterial polypeptide ~~fragment or variant of claim 66, wherein said bacteriophage polypeptide is a polypeptide of~~ originates for bacteriophage 96.

69. (Currently amended) The isolated or purified polypeptide bacterial polypeptide ~~fragment or variant of claim 68, wherein said bacteriophage polypeptide is selected from the~~ group consisting of 96ORF078 (SEQ ID NO: 4), a fragment of 96ORF078 and fragments, and a ~~variant of 96ORF078 or variants thereof.~~

70. (Currently amended) The isolated or purified polypeptide ~~bacterial polypeptide fragment or variant~~ of claim 66, wherein said polypeptide comprises a bacterial fragment or variant of less than 566 amino acids of *S. aureus* DnaG primase set forth in SEQ ID NO: 2 ~~comprises a domain 100% identical to contiguous amino acids as set forth in SEQ ID NO: 2, said domain having less than 566 amino acids.~~

71. (Currently amended) The isolated or purified polypeptide ~~bacterial polypeptide fragment or variant~~ of claim 70, wherein said fragment is selected from the group consisting of residues 35-599, residues 229-599, residues 380-599, residues 449-599, residues 490-599, residues 530-599, and residues 561-599 from SEQ ID NO: 2.

72. (Currently amended) A composition comprising a first isolated or purified polypeptide domain and a second isolated or purified polypeptide domain, wherein said first domain and said second domain binding specifically bind with each other, wherein said first domain is derived from *S. aureus* DnaG primase set forth in a STAAU_R9 polypeptide comprising SEQ ID NO: 2, and wherein said second domain is derived from a bacteriophage polypeptide that binds *S. aureus* DnaG primase set forth in SEQ ID NO: 2 ~~binding to said STAAU_R9 polypeptide.~~

73.-83. (Cancelled).

84. (Currently amended) An isolated, or purified or enriched polypeptide comprising an amino acid sequence having at least 92% identity over the entire length of at least 10 contiguous amino acid residues from amino acids 1 to 34 of as set forth in SEQ ID NO: 2

85. (Currently amended) An isolated, or purified or enriched polypeptide comprising amino acids 1 to 34 as set forth in SEQ ID NO: 2.

86. (Currently amended) An isolated, or purified ~~or enriched~~ polypeptide comprising an amino acid sequence having at least 95% identity over the entire length of SEQ ID NO: 2.

87. (Currently amended) An isolated, or purified ~~or enriched~~ polypeptide comprising an amino acid sequence having at least 95% similarity over the entire length of SEQ ID NO: 2.

88. (Currently amended) An isolated, or purified ~~or enriched~~ polypeptide consisting essentially of the amino acid sequence of SEQ ID NO: 2.

89. (Currently amended) An isolated, or purified ~~or enriched~~ polypeptide comprising an amino acid sequence having at least 95% 60%-identity over the entire length of ~~with-amino acids 1 to 50 of SEQ ID NO: 2.~~

90. (Currently amended) An isolated, or purified ~~or enriched~~ polypeptide comprising an amino acid sequence having at least 97% identity over the entire length of ~~80% similarity with amino acids 1 to 50 of SEQ ID NO: 2.~~

91. (Currently amended) An isolated, or purified ~~or enriched~~ ~~biologically active~~ primase, wherein said primase comprises ~~a domain having an amino acid sequence selected from the group consisting of:~~

(a) an amino acid sequence having at least 92% identity over the entire length of ~~sequences comprising at least 10 contiguous amino acid residues from amino acids 1 to 34 of~~ ~~as set forth in SEQ ID NO: 2;~~

(b) an amino acid sequence ~~sequences~~ having at least 95% 60%-identity over the ~~entire length of~~ ~~with-amino acids 1 to 50 of SEQ ID NO: 2;~~

(c) an amino acid sequence ~~sequences~~ having at least 97% identity over the entire ~~length of~~ ~~80% similarity with-amino acids 1 to 50 of SEQ ID NO: 2;~~

(d) an amino acid sequence ~~sequences~~ having at least 95% identity over the entire length of SEQ ID NO: 2;

(e) an amino acid sequence ~~sequences~~ having at least 95% similarity over the entire length of SEQ ID NO: 2; and

(f) an amino acid sequence set forth in SEQ ID NO: 2;
and wherein said primase possess a biological activity selected from the group consisting of activation of DNA polymerase activity, RNA primase activity, stimulation of helicase activity of *S. aureus* DnaC helicase, and stimulation of ATPase activity of *S. aureus* DnaC helicase.

92.-104. (Cancelled).